

We Claim:

1. A method of transmitting requests and content at a cache computer, wherein a first computer device and a second computer device are coupled to the cache computer and the first computer device requests content from the second computer device; the method comprising the steps of:

- (a) receiving a cache request from the second computer device; and
- (b) receiving at the cache computer non-requested content from the second computer device, wherein the non-requested is content other than content requested by the first computer device.

2. The method of claim 1, further including

- (c) transmitting a cache invitation to the second computer device.

3. The method of claim 2, wherein the cache invitation is located within a header of a request for content.

4. The method of claim 1, wherein (a) comprises:

- (d) receiving a request for cache memory space from the second computer.

5. The method of claim 4, wherein the request includes terms that have previously been agreed upon by the cache server and the second computer device.

6. The method of claim 4, wherein the request comprise a fee for use of the cache memory space.

7. The method of claim 6, wherein the fee is a fee that will be paid by the second computer device.

8. The method of claim 4, wherein the request further includes a requested amount of cache memory space.

9. The method of claim 4, wherein the non-requested content comprises objects of a web page.

10. The method of claim 1, further including:

(c) receiving at the cache computer the identification of non-requested content.

11. The method of claim 10, wherein the identification of non-requested content comprises memory addresses of non-requested content.

12. The method of claim 10, in response to (c) further including:

(e) requesting the non-requested content from the second computer

13. A method of transmitting content from a first computer device to a second computer device, wherein the first computer device and the second computer device are coupled to a cache computer device, the method comprising the steps of:

- (a) receiving from the cache computer device, a request for content;
- (b) transmitting to the cache computer device the requested content;
- (c) transmitting to the cache computer device a request for use of a cache memory; and

(d) after accepting terms for the use of the cache memory, transmitting to the cache computer device non-requested content, wherein the non-requested is content other than content requested by the cache computer device.

14. The method of claim 13, wherein the cache computer device comprises an access router coupled to an access network.

15. The method of claim 13, wherein the request in (c) comprises a proposed fee for use of the cache memory.

16 The method of claim 13, further including the steps of:

- (e) determining when the first computer device updates the non-requested content;
- and

(f) transmitting updated non-requested content to the second computer device when the first computer device updates the non-requested content.

17. The method of claim 13, wherein the request in (c) comprises a request for cache memory space.

18. The method of claim 13, wherein the request in step (c) comprises a time duration.

19. The method of claim 13, wherein the request in step (c) comprises a proposed fee.

20. The method of claim 13, further including the steps of:

- (e) receiving a denial in response to the request for the use of the cache memory;
- (f) receiving proposed terms for use of the cache memory; and
- (g) transmitting to the first computer device an approval of the proposed terms for use of the cache memory.

21. The method of claim 13, wherein the request (c) is located within a header of the requested content.

22. A computer-readable medium containing computer-executable instructions for causing a cache computer coupled to a first computer device and a second computer device to perform the steps comprising:

- (a) receiving a cache request from the second computer device; and

(b) receiving at the cache computer non-requested content from the second computer device, wherein the non-requested is content other than content requested by the first computer device.

23. An access router coupled to a local computer and a website, the access router including a cache module configured to perform the steps comprising:

- (a) receiving a cache request from the website; and
- (b) receiving non-requested content from the website, wherein the non-requested is content other than content requested by the local computer.